SIEMENS

Data sheet

3RT1076-6AP36



power contactor, AC-3e/AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC Uc: 220-240 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal

| product brand name | SIRIUS |
|---|----------------------------|
| product designation | Power contactor |
| product type designation | 3RT1 |
| General technical data | |
| size of contactor | S12 |
| product extension | |
| function module for communication | No |
| auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| at AC in hot operating state | 165 W |
| at AC in hot operating state per pole | 55 W |
| without load current share typical | 10 W |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 1 000 V |
| of auxiliary circuit with degree of pollution 3 rated value | 500 V |
| surge voltage resistance | |
| of main circuit rated value | 8 kV |
| of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 690 V |
| shock resistance at rectangular impulse | |
| • at AC | 8,5g / 5 ms, 4,2g / 10 ms |
| • at DC | 8,5g / 5 ms, 4,2g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 13,4g / 5 ms, 6,5g / 10 ms |
| • at DC | 13,4g / 5 ms, 6,5g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 10 000 000 |
| of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 |
| of the contactor with added auxiliary switch block typical | 10 000 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 05/01/2012 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| during operation | -25 +60 °C |
| during storage | -55 +80 °C |
| relative humidity minimum | 10 % |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % |

| Aain circuit | | | | |
|---|---------|--|--|--|
| number of poles for main current circuit | 3 | | | |
| number of NO contacts for main contacts | 3 | | | |
| operating voltage | | | | |
| at AC-3 rated value maximum | 1 000 V | | | |
| at AC-3e rated value maximum | 1 000 V | | | |
| operational current | | | | |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value | 610 A | | | |
| • at AC-1 | | | | |
| up to 690 V at ambient temperature 40 °C rated value | 610 A | | | |
| — up to 690 V at ambient temperature 60 °C rated value | 550 A | | | |
| — up to 1000 V at ambient temperature 40 $^\circ\mathrm{C}$ rated value | 200 A | | | |
| — up to 1000 V at ambient temperature 60 $^\circ\mathrm{C}$ rated value | 200 A | | | |
| • at AC-3 | | | | |
| — at 400 V rated value | 500 A | | | |
| — at 500 V rated value | 500 A | | | |
| — at 690 V rated value | 450 A | | | |
| — at 1000 V rated value | 180 A | | | |
| • at AC-3e | | | | |
| — at 400 V rated value | 500 A | | | |
| — at 500 V rated value | 500 A | | | |
| — at 690 V rated value | 450 A | | | |
| — at 1000 V rated value | 180 A | | | |
| at AC-4 at 400 V rated value | 430 A | | | |
| at AC-5a up to 690 V rated value | 536 A | | | |
| • at AC-5b up to 400 V rated value | 415 A | | | |
| ● at AC-6a | | | | |
| — up to 230 V for current peak value n=20 rated value | 414 A | | | |
| up to 400 V for current peak value n=20 rated value | 414 A | | | |
| up to 500 V for current peak value n=20 rated value | 414 A | | | |
| — up to 690 V for current peak value n=20 rated value | 414 A | | | |
| — up to 1000 V for current peak value n=20 rated value | 180 A | | | |
| ● at AC-6a | | | | |
| — up to 230 V for current peak value n=30 rated value | 276 A | | | |
| up to 400 V for current peak value n=30 rated value | 276 A | | | |
| — up to 500 V for current peak value n=30 rated value | 276 A | | | |
| — up to 690 V for current peak value n=30 rated value | 276 A | | | |
| — up to 1000 V for current peak value n=30 rated value | 180 A | | | |
| minimum cross-section in main circuit at maximum AC-1 rated value | 370 mm² | | | |
| operational current for approx. 200000 operating cycles at AC-4 | | | | |
| • at 400 V rated value | 175 A | | | |
| • at 690 V rated value | 150 A | | | |
| operational current | | | | |
| at 1 current path at DC-1 | | | | |
| — at 24 V rated value | 400 A | | | |
| — at 60 V rated value | 330 A | | | |
| — at 110 V rated value | 33 A | | | |
| — at 220 V rated value | 3.8 A | | | |
| — at 440 V rated value | 0.9 A | | | |
| — at 600 V rated value | 0.6 A | | | |
| with 2 current paths in series at DC-1 | | | | |
| — at 24 V rated value | 400 A | | | |
| — at 60 V rated value | 400 A | | | |
| — at 110 V rated value | 400 A | | | |
| | | | | |

| — at 220 V rated value | 400 A |
|--|-------------|
| — at 440 V rated value | 4 A |
| — at 600 V rated value | 2 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 400 A |
| — at 60 V rated value | 400 A |
| — at 110 V rated value | 400 A |
| — at 220 V rated value | 400 A |
| — at 440 V rated value | 11 A |
| — at 600 V rated value | 5.2 A |
| at 1 current path at DC-3 at DC-5 | |
| — at 24 V rated value | 400 A |
| — at 60 V rated value | 11 A |
| — at 220 V rated value | 0.6 A |
| — at 440 V rated value | 0.18 A |
| — at 600 V rated value | 0.125 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 400 A |
| — at 60 V rated value | 400 A |
| — at 110 V rated value | 400 A |
| — at 220 V rated value | 2.5 A |
| — at 440 V rated value | 0.65 A |
| — at 600 V rated value | 0.37 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 400 A |
| — at 60 V rated value | 400 A |
| — at 110 V rated value | 400 A |
| — at 220 V rated value | 400 A |
| — at 440 V rated value | 1.4 A |
| — at 600 V rated value | 0.75 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 160 kW |
| — at 400 V rated value | 250 kW |
| — at 500 V rated value | 315 kW |
| — at 690 V rated value | 400 kW |
| — at 1000 V rated value | 250 kW |
| • at AC-3e | |
| — at 230 V rated value | 160 kW |
| — at 400 V rated value | 250 kW |
| — at 500 V rated value | 315 kW |
| — at 690 V rated value | 400 kW |
| — at 1000 V rated value | 250 kW |
| operating power for approx. 200000 operating cycles at AC- 4 | |
| at 400 V rated value | 98 kW |
| • at 690 V rated value | 148 kW |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 160 000 kVA |
| up to 400 V for current peak value n=20 rated value | 280 000 VA |
| up to 500 V for current peak value n=20 rated value | 350 000 VA |
| up to 690 V for current peak value n=20 rated value | 490 000 VA |
| • up to 1000 V for current peak value n=20 rated value | 310 000 VA |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 110 000 VA |
| up to 400 V for current peak value n=30 rated value | 190 000 VA |
| up to 500 V for current peak value n=30 rated value | 230 000 VA |
| up to 690 V for current peak value n=30 rated value | 330 000 VA |
| up to 1000 V for current peak value n=30 rated value | |
| | 310 000 VA |

| limited to 1 s switching at zero current maximum | 7 484 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
|---|---|--|--|--|--|
| limited to 5 s switching at zero current maximum | 7 484 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| limited to 10 s switching at zero current maximum | 5 978 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| limited to 30 s switching at zero current maximum | 3 765 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| limited to 60 s switching at zero current maximum | 2 887 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| no-load switching frequency | | | | | |
| • at AC | 2 000 1/h | | | | |
| • at DC | 2 000 1/h | | | | |
| operating frequency | | | | | |
| ● at AC-1 maximum | 500 1/h | | | | |
| ● at AC-2 maximum | 170 1/h | | | | |
| • at AC-3 maximum | 420 1/h | | | | |
| • at AC-3e maximum | 420 1/h | | | | |
| ● at AC-4 maximum | 130 1/h | | | | |
| Control circuit/ Control | | | | | |
| type of voltage of the control supply voltage | AC/DC | | | | |
| control supply voltage at AC | | | | | |
| • at 50 Hz rated value | 220 240 V | | | | |
| at 60 Hz rated value | 220 240 V | | | | |
| control supply voltage at DC | | | | | |
| rated value | 220 240 V | | | | |
| operating range factor control supply voltage rated value of magnet coil at DC | | | | | |
| • initial value | 0.8 | | | | |
| • full-scale value | 1.1 | | | | |
| operating range factor control supply voltage rated value of magnet coil at AC | | | | | |
| • at 50 Hz | 0.8 1.1 | | | | |
| • at 60 Hz | 0.8 1.1 | | | | |
| design of the surge suppressor | with varistor | | | | |
| apparent pick-up power of magnet coil at AC • at 50 Hz | 830 VA | | | | |
| • at 50 Hz | 830 VA | | | | |
| inductive power factor with closing power of the coil | | | | | |
| • at 50 Hz | 0.9 | | | | |
| • at 60 Hz | 0.9 | | | | |
| apparent holding power of magnet coil at AC | | | | | |
| • at 50 Hz | 9.2 VA | | | | |
| • at 60 Hz | 9.2 VA | | | | |
| inductive power factor with the holding power of the coil | | | | | |
| • at 50 Hz | 0.9 | | | | |
| • at 60 Hz | 0.9 | | | | |
| closing power of magnet coil at DC | 920 W | | | | |
| holding power of magnet coil at DC | 10 W | | | | |
| closing delay | | | | | |
| • at AC | 45 100 ms | | | | |
| • at DC | 45 100 ms | | | | |
| opening delay | | | | | |
| • at AC | 60 100 ms | | | | |
| • at DC | 60 100 ms | | | | |
| arcing time | 10 15 ms | | | | |
| control version of the switch operating mechanism | Standard A1 - A2 | | | | |
| Auxiliary circuit | | | | | |
| number of NC contacts for auxiliary contacts instantaneous contact | 2 | | | | |
| number of NO contacts for auxiliary contacts instantaneous contact | 2 | | | | |
| operational current at AC-12 maximum | 10 A | | | | |
| operational current at AC-15 | | | | | |
| • at 230 V rated value | 6 A | | | | |
| at 400 V rated value | 3 A | | | | |
| • at 500 V rated value | 2 A | | | | |

| | 4.4 | | | |
|--|--|--|--|--|
| at 690 V rated value | 1 A | | | |
| operational current at DC-12 | 10.1 | | | |
| at 24 V rated value | 10 A | | | |
| at 48 V rated value | 6 A | | | |
| at 60 V rated value | 6 A | | | |
| at 110 V rated value | 3 A | | | |
| at 125 V rated value | 2 A | | | |
| at 220 V rated value | 1 A | | | |
| at 600 V rated value | 0.15 A | | | |
| operational current at DC-13 | | | | |
| at 24 V rated value | 10 A | | | |
| at 48 V rated value | 2 A | | | |
| at 60 V rated value | 2 A | | | |
| at 110 V rated value | 1 A | | | |
| at 125 V rated value | 0.9 A | | | |
| at 220 V rated value | 0.3 A | | | |
| • at 600 V rated value | 0.1 A | | | |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) | | | |
| UL/CSA ratings | | | | |
| full-load current (FLA) for 3-phase AC motor | | | | |
| • at 480 V rated value | 477 A | | | |
| • at 600 V rated value | 472 A | | | |
| yielded mechanical performance [hp] | | | | |
| • for 3-phase AC motor | | | | |
| — at 200/208 V rated value | 150 hp | | | |
| — at 220/230 V rated value | 200 hp | | | |
| — at 460/480 V rated value | 400 hp | | | |
| — at 575/600 V rated value | 500 hp | | | |
| contact rating of auxiliary contacts according to UL | A600 / Q600 | | | |
| Short-circuit protection | | | | |
| | | | | |
| aesign of the fuse link | | | | |
| design of the fuse link for short-circuit protection of the main circuit | | | | |
| • for short-circuit protection of the main circuit | gG: 630 A (690 V, 100 kA) | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required | gG: 630 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 | | | |
| for short-circuit protection of the main circuit | gG: 630 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required for short-circuit protection of the auxiliary switch required | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards downwards | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts forwards forwards | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts forwards upwards upwards upwards upwards upwards upwards upwards | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 20 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts for grounded parts upwards upwards at the side | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts forwards upwards at the side forwards at the side downwards at the side at the side downwards at the side | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 20 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts forwards at the side downwards at the side for upwards at the side for grounded parts odownwards at the side for upwards odownwards at the side | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts forwards at the side for grounded side for live parts for live parts for live parts for wards | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 20 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts for wards upwards at the side for live parts for live parts forwards upwards | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 20 mm 10 mm 20 mm 10 mm 10 mm 20 mm 10 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts for wards at the side for live parts for live parts forwards upwards downwards for live parts downwards for wards upwards downwards for wards upwards | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 20 mm 10 mm | | | |
| for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts for wards upwards at the side for live parts for live parts forwards upwards | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 20 mm 10 mm 10 mm 10 mm 20 mm 10 mm | | | |

| type of electrical conn | ection | | | | | |
|---|---------------------------------|--------------|--|---|-----------------------|--|
| for main current c | circuit | | Connection bar | | | |
| for auxiliary and of | control circuit | | screw-type terminals | | | |
| at contactor for at | uxiliary contacts | | Screw-type terminals | | | |
| of magnet coil | | | Screw-type terminals | | | |
| width of connection ba | | | 25 mm | | | |
| thickness of connection | on bar | | 6 mm | | | |
| diameter of holes | | | 11 mm | | | |
| number of holes | | _ | 1 | | | |
| | r cross-section for main c | ontacts | | | | |
| stranded | | _ | 70 240 mm² | | | |
| | r cross-section for auxilia | ry contacts | | | | |
| solid or stranded | | | 0.5 4 mm ² | | | |
| | ith core end processing | | 0.5 2.5 mm ² | 2.5 mm² | | |
| | onductor cross-sections | | | | | |
| for auxiliary containing | acts | | | | | |
| — solid | | | 2x (0.5 1.5 mm ²), 2x (0.75 | | <i>'</i> | |
| — solid or stra | nded | | 2x (0,5 1,5 mm ²), 2x (0,75 | | 4 mm²) | |
| | led with core end processing | 9 | 2x (0.5 1.5 mm ²), 2x (0.75 | | | |
| | or auxiliary contacts | | 2x (20 16), 2x (18 14), 1x | : 12 | | |
| AWG number as code section | d connectable conductor of | cross | | | | |
| for auxiliary conta | acts | | 18 14 | | | |
| Safety related data | | | | | | |
| product function | | | | | | |
| • | cording to IEC 60947-4-1 | | Yes | | | |
| | operation according to IEC 6 | 0047 5 1 | No | | | |
| | nand rate according to SN 3 | | 1 000 000 | | | |
| | nterval or service life accordi | | 20 a | | | |
| 61508 | | | 200 | | | |
| protection class IP on the front according to IEC 60529 | | | IP00; IP20 with box terminal/cover | | | |
| touch protection on the front according to IEC 60529 | | | finger-safe, for vertical contact from the front with box terminal/cover | | | |
| suitability for use | | | | | | |
| safety-related swi | itching OFF | | Yes | | | |
| Certificates/ approvals | | | | | | |
| General Product Appr | oval | | | | EMC | |
| | | | | | | |
| SP: | <u>Confirmation</u> | () | (YL) | EAC | Ø | |
| CSA | | ccc | UL | | RCM | |
| Functional Safety/Safety of Ma- chinery | Declaration of Conformi | ty | Test Certificates | | | |
| Type Examination Cer- tificate | C C EG-Konf. | UK CA | Special Test Certific- ate | Type Test Certific- ates/Test Report | <u>Miscellaneous</u> | |
| Marine / Shipping | | | | | other | |
| | | - | <i>•</i> | | Confirment | |
| ABS | Lloyd's Register uis | PRS | RMRS | | <u>Confirmation</u> | |
| other | | | Railway | | | |
| Miscellaneous | <u>Miscellaneous</u> | Confirmation | Vibration and Shock | Special Test Certific- | | |
| 3RT10766AP36 | | | | Subject to a | change without notice | |

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1076-6AP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6AP36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AP36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

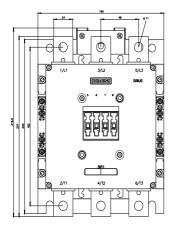
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1076-6AP36&lang=en

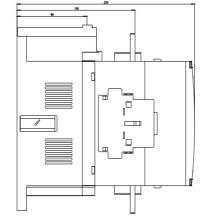
Characteristic: Tripping characteristics, I²t, Let-through current

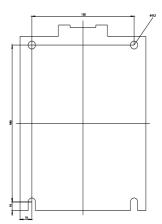
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AP36/char

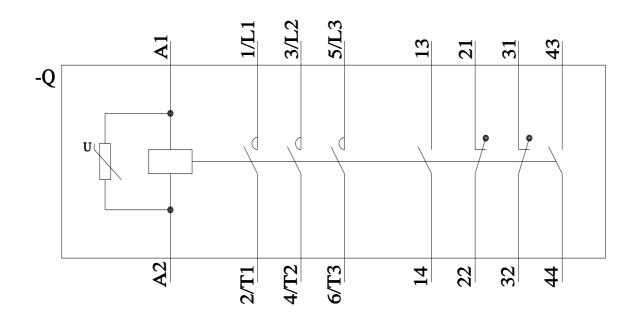
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6AP36&objecttype=14&gridview=view1









last modified:

2/10/2023 🖸